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Quarterly Progress Report  
Number 3

March 8, 1965

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☐ Project Number: 723  
Title: PI Performance  
Contract Dates: 6/19/64 - 6/19/66  
Estimated Costs: ☐  
Funds Expended to 1/31/65: ☐  
Cost Remaining: ☐  
Technical Representative: RLS  
Project Director: DNB  
Project Staff: DNB, AH, RRM, WH, CHB, DAD, JO'H

Declass Review by NGA.

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This progress report covers the period from December 20, 1964 to March 8, 1965. It is not due until March 15, but we have decided to make the dates of all ☐ quarterly progress reports the same, so that we don't forget to submit them. The dates are 2/15, 5/15, 8/15, and 11/15. With the old rules, this one is early; but with our new ones, it is late.

Expenditures

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The funds expended thus far represent an average monthly expenditure rate of approximately ☐ which is very close to the rate originally estimated of ☐ per month. The expenditure rate during the two-month period ending on 1/31/65 was approximately ☐ per month. The increased rate was the result of executing a study and preparing a technical report during January and February.

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Progress

During the reporting period we designed and executed a study of the effects of stereo convergence and obliquity angles on the judged worth of aerial photographs. The study was conducted on the East Coast and experienced PI's were used as subjects. The technical report (TR 723-2) was submitted on 3/5/65. The title of the report is: "The Effects of Stereo Convergence and Obliquity Angles on the Judged Worth of Aerial Photographs."

The most significant results were those concerning convergence angles. At nadir, there were no significant differences among convergence angles of 10, 20, or 30 degrees. At 10 and 20 degrees of obliquity, a convergence angle of 30 degrees was significantly poorer than a convergence angle of either 10 or 20 degrees. At 30, 45, and 60 degrees of obliquity, there were no differences among convergence angles of 10, 20, or 30 degrees.

At convergence angles of 10 and 20 degrees, there were no differences among 0, 10, and 20 degrees of obliquity; but from 20 to 60 degrees of obliquity, the judged worth of the photographs dropped significantly.

At a convergence angle of 30 degrees, the judged worth of the photographs dropped significantly as the obliquity angle was increased from 0 to 10 to 20 degrees of obliquity; and from 30 to 45 to 60 degrees of obliquity, another significant drop occurred.

#### Plans

We are planning to get together with FS within the next week or so to discuss our longer range effort. As soon as fairly definitive plans have been made, they will be submitted to the customer for an evaluation.